

DUWAMISH RIVER BASIN

1

12113349 MILL CREEK NEAR MOUTH, AT ORILLIA, WA

LOCATION.--Lat $47^{\circ}26'20''$, long $122^{\circ}14'26''$, in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.23 N., R.4 E., King County, Hydrologic Unit 17110013, on left bank 15 ft upstream from Burlington-Northern railroad trestle, in Orillia.

DRAINAGE AREA.--6.03 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level (City of Kent benchmark).

REMARKS.--Records fair. Natural flow affected by Green River Natural Resource area located 1.75 miles upstream and by urbanization. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--6 years (water year 1995-2000), 17.4 ft³/s, 12,630 acre-ft/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 376 ft³/s Feb. 9, 1996, from rating curve extended above 133 ft³/s, elevation, 18.77 ft; minimum discharge, 0.65 ft³/s Sept. 1, 1998.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 221 ft³/s Dec. 15, elevation, 14.90 ft; minimum discharge, 1.20 ft³/s Aug. 6, Sept. 23-26, 28, 29.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.5	38	32	129	31	6.7	6.7	3.7	2.8	1.4	1.5
2	1.6	4.7	46	14	59	44	6.4	13	4.0	2.7	1.5	1.5
3	1.5	4.5	21	18	36	33	6.2	20	4.1	21	1.4	2.2
4	1.5	3.4	15	41	26	84	6.0	12	4.3	3.9	1.4	3.0
5	1.6	6.1	37	16	20	38	5.6	18	4.1	2.7	1.3	1.5
6	1.6	42	50	14	18	27	11	7.8	6.7	4.2	1.3	1.5
7	1.8	7.2	24	14	28	21	8.5	4.6	5.0	4.3	1.4	1.5
8	36	8.3	21	31	84	17	5.9	6.3	11	3.2	1.4	3.7
9	10	39	37	40	42	17	5.4	34	8.9	2.6	1.4	2.0
10	2.3	77	19	30	27	13	5.2	30	9.6	2.4	1.4	22
11	2.8	64	19	28	20	12	5.1	37	13	2.5	1.4	7.3
12	4.3	185	72	32	17	9.9	5.1	11	91	2.4	1.4	2.1
13	3.0	130	41	26	13	18	13	4.6	22	2.4	1.4	1.7
14	4.6	68	53	40	36	35	25	3.8	13	2.3	1.4	1.5
15	3.9	54	111	28	27	16	22	4.7	12	2.2	1.4	1.4
16	2.1	50	80	35	16	30	9.4	5.0	5.9	2.3	1.4	1.4
17	1.6	71	73	20	13	15	7.4	3.2	4.7	2.2	1.4	1.3
18	1.5	27	58	15	11	24	7.2	9.4	4.4	2.1	8.2	1.3
19	1.5	28	40	13	9.7	16	12	22	4.1	2.3	3.8	1.6
20	2.0	57	30	27	9.1	12	12	7.0	3.7	3.1	1.7	1.5
21	2.2	72	24	23	20	10	12	8.2	3.5	2.6	1.5	1.5
22	2.1	37	19	15	34	40	14	9.6	3.4	2.2	1.5	1.5
23	2.1	29	16	12	24	19	13	6.5	5.2	2.2	1.5	1.3
24	2.4	35	13	11	14	13	11	3.5	4.8	2.0	1.4	1.2
25	5.0	122	11	14	22	11	16	2.9	3.5	1.9	1.4	1.2
26	3.4	94	10	10	22	9.5	6.0	5.8	3.1	1.9	1.7	1.2
27	8.6	58	9.2	8.7	35	10	6.4	8.1	3.1	1.7	1.5	1.3
28	20	49	8.6	8.1	18	9.6	11	5.1	2.9	1.7	1.4	1.2
29	8.8	35	8.1	8.0	53	8.9	5.3	3.4	2.9	1.6	1.4	1.4
30	6.9	60	7.7	7.8	---	7.4	4.2	e5.2	3.0	1.6	1.9	5.1
31	30	---	20	14	---	6.9	---	5.5	---	1.5	1.6	---
TOTAL	178.3	1521.7	1031.6	645.6	882.8	658.2	284.0	323.9	270.6	94.5	54.2	78.4
MEAN	5.75	50.7	33.3	20.8	30.4	21.2	9.47	10.4	9.02	3.05	1.75	2.61
MAX	36	185	111	41	129	84	25	37	91	21	8.2	22
MIN	1.5	3.4	7.7	7.8	9.1	6.9	4.2	2.9	2.9	1.5	1.3	1.2
AC-FT	354	3020	2050	1280	1750	1310	563	642	537	187	108	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	10.3	29.6	36.4	34.5	34.2	23.0	13.1	8.84	6.26	3.56	3.40	3.94
MAX	18.5	50.7	51.8	50.8	64.8	38.5	27.2	12.5	11.5	6.66	5.56	9.19
(WY)	1998	2000	1997	1997	1996	1997	1996	1996	1997	1997	1995	1997
MIN	5.75	15.1	17.4	16.9	18.2	13.6	6.53	3.75	3.62	1.95	1.29	2.06
(WY)	2000	1998	1998	1995	1998	1996	1998	1995	1995	1994	1994	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1994 - 2000
ANNUAL TOTAL	7428.9	6023.8	
ANNUAL MEAN	20.4	16.5	
HIGHEST ANNUAL MEAN			17.4
LOWEST ANNUAL MEAN			21.4
HIGHEST DAILY MEAN	185	Nov 12	12.2
LOWEST DAILY MEAN	1.5	Sep 14	1995
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 27	1995
ANNUAL RUNOFF (AC-FT)	14740	11950	12630
10 PERCENT EXCEEDS	58	40	41
50 PERCENT EXCEEDS	9.3	8.1	7.8
90 PERCENT EXCEEDS	2.1	1.5	1.6

e Estimated